

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Jacques DUMAS et al.

Serial No.: 10/071,248

Group Art Unit: 1625

Filed: February 11, 2002

Examiner: Rita J. Desai

For: METHOD AND/OR PROCESS FOR PREPARING ω -CARBOXYARYL
SUBSTITUTED DIPHENYL UREAS AS RAF KINASE INHIBITORS

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §§ 1.56, 1.97 and 1.98

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P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

Based on information from foreign associates, it is believed that at least Iranian No. 26555 and Lebanese No. 6124 are patented applications filed in the English language and registered. Copies of the registration certificates and the applications filed are provided herewith.

Iran Patent No. 26555 was filed on January 13, 2000 and Lebanese Patent No. 6124 was filed on January 12, 2000

Pursuant to 37 CFR §1.97 and §1.98, Applicant identifies the following related copending applications.

Title: Inhibition of RAF Kinase Activity Using Aryl Ureas
Inventor(s): Jill Wood et al.
Filed January 8, 2001, Serial No. 09/755,060
Status: Published

Title: Inhibition of p38 Kinase Activity by Aryl Ureas
Inventor(s): Gerald Ranges et al.
Filed September 7, 2001, Serial No. 09/947,761

Title: Inhibition of p38 Kinase by Aryl Ureas
Inventor(s): Gerald Rogers et al.
Filed May 21, 1998, Serial No. PCT/US98/10375

Title: Inhibition of RAF Kinase Using Symmetrical and
Unsymmetrical
Substituted Diphenyl Ureas

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Name: Richard J. Travieso Reg # 30595
Signature: [Signature]

Inventor(s): Scott Miller et al.
Filed December 22, 1998, Serial No. 09/776,936

Title: Inhibition of RAF Kinase Using Substituted Heterocyclic Ureas
Inventor(s): Jacques Dumas et al.
Filed: August 18, 2000, Serial No. 09/640,780

Title: Inhibition of RAF Kinase Using Substituted Heterocyclic Ureas
Inventor(s): Jacques Dumas et al.
Filed December 22, 1998, PCT/US98/26078

Title: Inhibition of RAF Kinase Using Aryl and Heteroaryl Substituted Heterocyclic Ureas
Inventor(s): William Scott et al.
Filed December 27, 1998, Serial No. 09/472,232

Title: Inhibition of RAF Kinase Using Aryl and Heteroaryl Substituted Heterocyclic Ureas
Inventor(s): Jacques Dumas et al.
Filed December 22, 1998, PCT/US98/26082

Title: Inhibition of P38 Kinase Activity Using Symmetrical and Unsymmetrical Diphenyl Ureas
Inventor(s): Scott Miller et al.
Filed February 1, 2002, Serial No. 10/060,396

Title: Inhibition of p38 Kinase Using Symmetrical and Unsymmetrical Diphenyl Ureas
Inventor(s): Scott Miller et al.
Filed: December 22, 1998, PCT/US98/27265

Title: Inhibition of P38 Kinase Using Substituted Heterocyclic Ureas
Inventor(s): Jacques Dumas et al.
Filed December 10, 1999, Serial No. 09/458,014

Title: Inhibition of p38 Kinase Activity Using Substituted Heterocyclic Ureas
Inventor(s): Jacques Dumas et al.
Filed December 22, 1998, PCT/US98/26080

Title: Inhibition of p38 Kinase Activity Using Aryl and Heteroaryl Substituted Heterocyclic Ureas
Inventor(s): Jacques Dumas et al.
Filed December 22, 1998, Serial No. 09/776,935

Title: Inhibition of p38 Kinase Activity Using Aryl and Heteroaryl Substituted Heterocyclic Ureas
Inventor(s): Jacques Dumas et al.

Filed: December 22, 1998, PCT/US98/26079

Title: Inhibition of RAF Kinase Quinoliny, Isoquinoliny or Pyridyl Ureas

Inventor: Jacques Dumas et al.

Filed April 19, 2002, Serial No. 10/125,369

Title: Heteroaryl Ureas Containing Nitrogen Hetero-Atoms As p38 Kinase Inhibitors

Inventor: Jacques Dumas et al.

Filed April 20, 2001, Serial No. 09/838,286

Title: Heteroaryl Ureas Containing Nitrogen Hetero-Atoms As p38 Kinase Inhibitors

Inventor: Jacques Dumas et al.

Filed April 18, 2002, Serial No. PCT/US02/12064

Title: ω -Carboxyaryl Substituted Diphenyl Ureas As RAF Kinase Inhibitors

Inventor: Bernd Riedl et al.

Filed: September 10, 2001, Serial No. 09/948,915

Title: ω -Carboxyaryl Substituted Diphenyl Ureas As RAF Kinase Inhibitors

Inventor: Bernd Riedl et al.

Filed: January 12, 2000, Serial No. PCT/US00/00648

Title: ω -Carboxyaryl Substituted Diphenyl Ureas As RAF Kinase Inhibitors

Inventor: Bernd Riedl et al.

Filed: July 12, 2001, National Phase of (09/889,227)
(PCT/US00/00648)

Title: Inhibition of Raf Kinase Using Quinoliny, Isoquinoliny and Pyridiny Ureas

Inventor: Jacques Dumas et al.

Filed February 7, 2001, Serial No. 09/777,920

Title: Inhibition of Raf Kinase Using Quinoliny, Isoquinoliny and Pyridiny Ureas

Inventor: Jacques Dumas et al.

Filed: January 7, 2002, Serial No. PCT/US02/03361

Title: Method and/or Process for Preparing ω -Carboxyaryl Substituted Diphenyl Ureas as raf Kinase Inhibitors

Filed February 11, 2002, Serial No. 10/071,248

Title: Omega-Carboxy Aryl Substituted Diphenyl Ureas as p38 Kinase Inhibitors

Inventor: Bernd Riedl et al.

Filed March 12, 2002, Serial No.10/086,417

Title: Aryl Ureas With Angiogenesis Inhibiting Activity

Inventor(s): Jaques Dumas et al.

Filed February 11, 2002, Serial No.60/354,950

Title: ω -Carboxyaryl Substituted Diphenyl Ureas as RAF Kinase Inhibitors

Inventor(s): Riedl et al.

Filed November 27, 2001, Serial No. 09/993,647

Title: ω -Carboxyaryl Substituted Diphenyl Ureas As RAF Kinase Inhibitors

Inventor(s): Riedl et al.

Filed January 11, 2002, Serial No. 09/758,266

Title: ω -Carboxyaryl Substituted Diphenyl Ureas As RAF Kinase Inhibitors

Inventor: Riedl et al.

Filed: July 19, 2001, Serial No. 09/907,970

Title: Aryl Urea Compounds In Combination with Other Cytostatic or Cytotoxic Agents For Treating Human Cancers

Filed December 3, 2001, S.N. 60/334,609

Title: Aryl Ureas As Kinase Inhibitors

Inventor: Jacques Dumas.

Filed: February, 11, 2002, S.N. 60/354,937,

Title: Aryl Ureas With raf Kinase and Angiogenesis Inhibiting Activity

Inventor: Jaques Dumas

Filed: February, 11, 2002, S.N. 60/354,948

Title: Pyridine, Quinoline and Isoquinoline N-oxides as Kinase Inhibitors

Inventor: Jacques Dumas

Filed: February, 11, 2002, S.N. 60/354,935

Title: Aryl Ureas With Angiogenesis Inhibiting Activity

Inventor: Jacques Dumas, et. al.

Filed February 11, 2003, Serial No.10/361,858

Title: ω -Carboxyaryl Substituted Diphenyl Ureas as RAF Kinase Inhibitors

Inventor(s): Riedl et al.

Filed November 27, 2001, Serial No. 09/993,647

Title: ω -Carboxyaryl Substituted Diphenyl Ureas As RAF Kinase Inhibitors

Inventor(s): Riedl et al.

Filed January 11, 2002, Serial No. 10/242,226

Title: ω -Carboxyaryl Substituted Diphenyl Ureas As RAF Kinase Inhibitors

Inventor: Riedl et al.
Filed: July 19, 2001, Serial No. 09/907,970

Title: ω -Carboxyaryl Substituted Diphenyl Ureas As RAF Kinase Inhibitors

Inventor: Riedl et al.
Filed: October 30, 2002, Serial No. 10/283,248

Title: Aryl Urea Compounds In Combination with Other Cytostatic or Cytotoxic Agents For Treating Human Cancers

Inventor: Carter et al
Filed December 3, 2002, S.N. 10/308,187

Title: Aryl Ureas As Kinase Inhibitors

Inventor: Jacques Dumas.
Filed: February, 11, 2003, S.N. 10/361,859

Title: Aryl Ureas With raf Kinase and Angiogenesis Inhibiting Activity

Inventor: Jaques Dumas
Filed: February, 11, 2003, S.N. 10/361,844

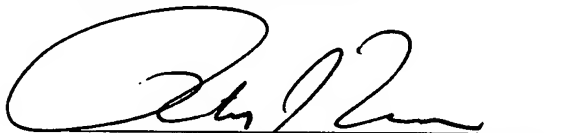
Title: Pyridine, Quinoline and Isoquinoline N-oxides as Kinase Inhibitors

Inventor: Jacques Dumas
Filed: February, 11, 2003, S.N. 10/361,850

FEES

No fee is believed due because this submission is filed with an RCE. However, if a fee is deemed necessary the Commissioner is hereby authorized to charge any fees associated with this response or credit any overpayment to Deposit Account No. 13-3402.

Respectfully submitted,

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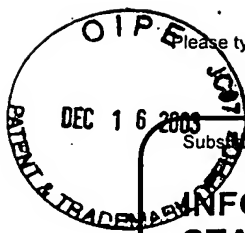
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Attorney Docket No.: BAYER 15P4

Date: December 15, 2003

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Sheet 1 of 8

Complete if Known

Application Number	10/071,248
Filing Date	2/11/02
First Named Inventor	DUMAS, Jacques, et al.
Group Art Unit	1625
Examiner Name	DESAI, Rita
Attorney Docket Number	BAYER-0015-P04

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
		4,973,675		Israel, et al.	11-27-1990
		6,147,116		Barbachyn, et al.	11-14-2000
		6,344,476		Ranges, et al.	02-05-2000
		4,111,683		Singer	09-05-1978
		5,596,001		Hamanaka	01-21-1997
		5,447,957		Adams, et al.	09-05-1995
		6,143,764		Kubo, et al.	11-07-2000
		6,043,374		Widdowson, et al.	03-28-2000
		6,015,908		Widdowson, et al.	01-18-2000
		5,929,250		Widdowson, et al.	07-27-1999
		6,391,917		Petrie, et al.	05-21-2002
		4,279,639		Okamoto, et al.	07-21-1981
		6,022,884		Mantlo, et al.	02-08-1998
		5,710,094		Becker, et al.	01-20-1998
		3,284,433		Minami, et al.	11-08-66

FOREIGN PATENT DOCUMENTS

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
		JP	54-032468			09-03-1979		
		EP	0405233A1			01-02-1991		
		EP	0379915A1			08-01-1990		
		EP	0381987A1			08-16-1990		
		EP	0380048A2			08-01-1990		
		EP	0264904A2			04-27-1988		
		EP	0359148A1			03-21-1990		
		EP	0233559B1			08-26-1987		
		EP	0230400A2			07-29-1987		

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Application Number	10/071,248
Filing Date	2/11/02
First Named Inventor	DUMAS, Jacques, et al.
Group Art Unit	1625
Examiner Name	DESAI, Rita
Attorney Docket Number	BAYER-15-P04

U.S. PATENT DOCUMENTS

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
		EP	0192263B1			08-27-1986		
		EP	0107214A1			05-02-1984		
		WO	0047577			08-17-2000		
		WO	99/21835			05-06-1999		
		WO	99/24635			05-06-1999		
		WO	00/14698			07-20-2000		
		WO	01/36403			05-25-2001		
		WO	96/13632			05-09-1996		
		WO	02/24635			03-28-2002		
		IR	26555			Filed 01-13-00		
		LB	6124			Filed 01-12-00		
		EP	0709225			05-01-1996		

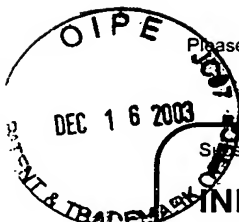
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Application Number	10/071,248
Filing Date	February 11, 2002
First Named Inventor	Jacques DUMAS et al.
Group Art Unit	1625
Examiner Name	Rita J. Desai
Attorney Docket Number	BAYER 15P4

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Publication No. US 2002/0065296 A1, Publication Date: May 30, 2002, Dumas et al. ✓	
		Publication No. US 2002/0062763 A1, Publication Date: May 30, 2003, Macholdt et al. ✓	
		Publication No. US 2002/012831 A1, Publication Date: September 21, 2002, Widdowson et al.	
		Publication No. US 2002/0082255 a1, Publication Date: June 27, 2002, Eastwood /	
		Caplus 113:106314, Abstract of JP 2022650, Silver halide color photographic material containing a cyan coupler of 2-ureido-phenol type to improve dye developability and remove leuco cyan dye, Noboru Mizukura et al. January 25, 1990.	
		Caplus 113:142130, Abstract of JP 2023337, Silver halide photographic material containing phenolic cyan coupler a colorless cyan coupler, Toshihiko Yagi et al., January 25, 1990.	
		Caplus 87:62295, "The metabolism and toxicity of halogenated carbanilides. Biliary metabolites of 3,4,4'-trichlorocarbanilide and 3-trifluoromethyl-4,4'-dichlorocarbanilide in the rat", Chemical Life Science, pp. 157-66, 1977.	
		Caplus 127:293717, "Optical properties of segmented oligourethane with azomethine terminal fragments", National Academy of Science of Ukraine, M. V. Kurik et al., pp. 2038-2041, 1996.	
		Caplus 127:273945, "Quantitative structure-biodegradability studies: an investigation of the MITI aromatic compound database", School of Pharmacy and Chemistry, J. C. Dearden, pp. 93-104, 1996.	
		Caplus 126:166148, "Inhibitors of coenzyme A-independent transacylase induce apoptosis in human HL-60 cells", James D. Winkler et al., J. Pharmacol. Exp. Ther. Pp. 956-966, 1996.	
		Caplus 98:78152, Abstract of JP 57185219, "Antitumor benzophenone derivatives", November 15, 1982.	

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Sheet 4 Of 8

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Application Number	10/071,248
Filing Date	February 11, 2002
First Named Inventor	Jacques DUMAS et al.
Group Art Unit	1625
Examiner Name	Rita Desai
Attorney Docket Number	BAYER 15P4

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Caplus 72:79046, Abstract of CH 479557, "Tuberculostatic and cancerostatic polybasic ureas", Dr. A. Wander, October 15, 1969.	
		Caplus 125:245169, "Production of murine monoclonal antibodies against sulcofuron and flucofuron by in vitro immunization", G. A. Bonwick et al., J. Immunol. Methods, pp. 163-173, 1996.	
		Caplus 127:34137f, "Preparation of quinoline and quinoxaline derivatives inhibiting platelet-derived growth factor receptor autophosphorylation", Kazuo Kubo et al., May 15, 1997.	
		Caplus 131:58658, "Inhibition of raf kinase using symmetrical and unsymmetrical substituted diphenyl ureas", Miller, Scott, July 1, 1999.	
		Caplus 131:87909y, "Inhibition of p38 kinase activity using substituted heterocyclic ureas", Jacques Dumas, July 1, 1999.	
		Caplus 131:73649b, "Preparation of pyrazolyl aryl ureas and related compounds as p38kinase inhibitor", Jacques Dumas, July 1, 1999.	
		Joseph V. Simone, "Cecil Textbook of Medicine", 20th Edition, Vol. 1, 2-3-1997. pp. 1004-1010.	
		Cesar Raposo et al., "Catalysis of Nucleophilic Addition of Pyrrolidine to 2-(5H)-Furanone through Chromenone Cleft-Type Receptors", Vol. 37, No. 38, pp. 6947-6950, 1996.	
		Jacqueline E. van Muijlwijk-Koezen et al., "Isoquinoline and Quinoxaline Urea Analogues as Antagonists for the Human Adenosine A ₃ Receptor", J. Ed. Chem. 2000, 43, pp. 2227-2238, January 3, 2000.	
		Jacques Dumas et al., "1-Phenyl-5-pyrazolyl Ureas: Potent and Selective p38 Kinase Inhibitors", Bioorganic & Medicinal Chemistry Letters, pp. 2051-2054, May 2, 2000.	
		Robert W. Carling et al., "1-(3-Cyanobenzyl)piperidin-4-yl)-5-methyl-4-phenyl-1,3-dihydroimidazol-2-one: A Selective High-Affinity Antagonist for the Human Dopamine D ₄ Receptor with Excellent Selectivity over Ion Channels", J. Med. Chem., 1999, 42, pp. 2706-2715.	
		Abstract WO 9822103, May 28, 1998, John Philip Hedge et al.	

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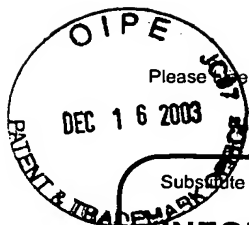
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Sheet 5 Of 8

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Application Number	10/071,248
Filing Date	February 11, 2002
First Named Inventor	Jacques DUMAS et al.
Group Art Unit	1625
Examiner Name	Rita J. Desai
Attorney Docket Number	BAYER 15P4

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Abstract of DE 3305866A1, August 29, 1984, Dr. Acker Rolf-Dieter et al.	
		Abstract of EP 4931(equivalent 4,240,820), K. Dickore e tal. (1980)	
		Dumas, J.. "CAS Structure," May 6, 1997, pages 1-29	
		Scott,Bill, "Substructure (Patent Families)", August 11, 1997, pages 1-19.	
		Scott, Bill, "Substructure #2", November 25, 1997, pages 1-3.	
		"Beilstein number" Collection, 28 pages (1997)	
		"Beilstein Collection", 4 pages (1997)	
		Scott, Bill, "Substructure Search", December 2, 1997, pages 1-51.	
		Substructure Search, pages 1-30. (1997)	
		Derwent World Patents Index Search, pages 20-26. (1997)	
		Abstract of EP 116,932 (1984)	
		Abstract of EP 676,395 (1995)	
		Abstract of EP 202,538 (1986)	
		Abstract of EP 16,371 (1980)	

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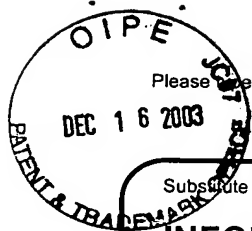
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 6 of 8

Complete if Known

Application Number	10/071,248
Filing Date	February 11, 2002
First Named Inventor	Jacques DUMAS et al.
Group Art Unit	1625
Examiner Name	Rita Desai
Attorney Docket Number	BAYER 15P4

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	AA	A "Notice of References Cited" from the USPTO for U.S. application 08/995,749 not published, filed 12-22-1997.	
	AB	A "Notice of References Cited" from the USPTO for U.S. application 09/083,399, not published, filed 5-22-98.	
	AC AND AD	A "Notice of References Cited" from the USPTO for U.S. application 09/425,228, not published, filed 10-22-99.	
	AE	A "Notice of References Cited" from the USPTO for U.S. application 09/425,229, not published, filed 10-22-1999.	
	AF	A "Notice of References Cited" from the USPTO for U.S. application 09/458,015, not published, filed 12-10-99.	
	AG	A "Notice of References Cited" from the USPTO for U.S. application 09/472,232, not published, filed 12-27-99.	
	AH	A "Notice of References Cited" from the USPTO for U.S. application 09/472,232, not published, filed 12-27-99.	
	AI	A "Notice of References Cited" from the USPTO for U.S. application 09/773,604, pub no 2001-0034447, 10-25-01.	
	AJ	A "Notice of References Cited" from the USPTO for U.S. application 09/773,659, pub no 2001-001135, 8-2-01.	
	AK	A "Notice of References Cited" from the USPTO for U.S. application 09/773,672, pub no 2001-0016659, 8-23-01.	
	AL	A "Notice of References Cited" from the USPTO for U.S. application 09/773,675, pub no 2001-0011136, 8-2-01.	

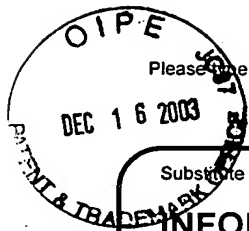
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Sheet 7 of 8

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Application Number	10/071,248
Filing Date	February 11, 2002
First Named Inventor	Jacques DUMAS et al.
Group Art Unit	1625
Examiner Name	Rita Desai
Attorney Docket Number	BAYER 15P4

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	AM	A "Notice of References Cited" from the USPTO for U.S. application 09/776,935, not published, filed on 12-28-1998.	
	AN	A "Notice of References Cited" from the USPTO for U.S. application 09/776,936, not published, filed 12-28-1998.	
	AO	A "Notice of References Cited" from the USPTO for U.S. application 09/777,920, pub no 2002-0165394, 11-7-02.	
	AP	A "Notice of References Cited" from the USPTO for U.S. application 09/948,91, pub no 2002-0042517, 4-11-02.	
	AQ	A "Notice of References Cited" from the USPTO for U.S. application 10/042,226, pub no 2003-0207872, 11-6-03.	
	AR	A "Notice of References Cited" from the EPO fro European application EP 98/963809, pub no EP1049664, 11-8-00.	
	AS	Supplemental search report from the EPO for European application EP 98/963810, pub no EP1056725, 12-6-00.	
	AT	Supplemental search report from the EPO for European application EP 98/965981, pub no EP1047418, 11-2-00.	
	AU	Supplemental search report from the EPO for European application EP 00/903239, pub no EP1140840, 10-10-01.	
	BA	International search report for International Application No. PCT/US98/10375, pub no WO98/52558, 11-26-98.	
	BB	International search report for International Application No. PCT/US98/10376, pub no WO98/52559, 11-26-98.	

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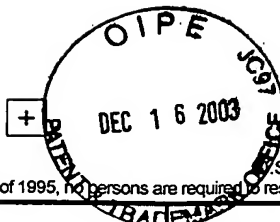
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 8 of 8

Complete if Known

Application Number	10/071,248
Filing Date	February 11, 2002
First Named Inventor	Bernd Riedl et al.
Group Art Unit	1625
Examiner Name	Rita Desai
Attorney Docket Number	BAYER 15P4

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	BC	International search report for International Application No. PCT/US98/26078, pub no WO99/32106, 7-1-99.	
	BD	International search report for International Application No. PCT/US98/26079, pub no WO99/32110, 7-1-99.	
	BE	International search report for International Application No. PCT/US98/26080, pub no WO99/32111, 7-1-99.	
	BF	International search report for International Application No. PCT/US98/26081, pub no WO99/32436, 7-1-99.	
	BG	International search report for International Application No. PCT/US98/26082, pub no WO99/32455, 7-1-99.	
	BH	International search report for International Application No. PCT/US98/24265, pub no WO99/28305, 6-10-99.	
	BI	International search report for International Application No. PCT/US00/00648, pub no WO00/042012, 7-20-00.	
	BJ	International search report for International Application No. PCT/US00/0076, pub no WO00/041698, 7-20-00.	
	BK	International search report for International Application No. PCT/US02/12064, pub no WO02/085859, 10-31-02.	
	BL	International search report for International Application No. PCT/US02/12066, pub no WO02/085857, 10-31-02.	
	BM	International search report for International Application No. PCT/US98/26081.	

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